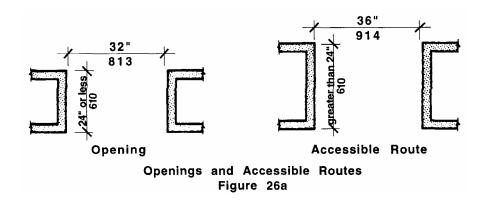
26.1 GENERAL

All doors and openings along accessible routes shall comply with the following requirements.

26.1.1 Gates, including ticket gates, shall also comply with 521 CMR 26.

Exceptions: Openings greater than 24 inches (24" = 6110mm) in depth are not doorways but may be part of an *accessible route*, in which case they shall comply with **521 CMR 20**, **ACCESSIBLE ROUTES** and **521 CMR 24**, **RAMPS** (see **Fig. 26a**). Doors not requiring full user passage, such as shallow closets, may have the *clear* opening reduced to 20 inches (20" = 508mm) minimum, see **521 CMR 9.5.8**, **Closets**.



26.2 REVOLVING DOORS

Revolving doors shall not be the only means of passage at an *accessible entrance* or along an *accessible route* unless the revolving door is also *accessible*. An *accessible* door shall be provided adjacent to a revolving door and shall permit the same use pattern.

- 26.2.1 Whenever the revolving doors are unlocked, the adjacent *accessible* door shall be unlocked.
- 26.2.2 The adjacent *accessible* door must have hardware that allows *entrance* into the building as well as *egress*.

26.3 TURNSTILES

Turnstiles shall not be the only means of passage at an accessible entrance or along an accessible route. An accessible gate shall be provided adjacent to the turnstile and shall be designed to permit the same use pattern, complying with 521 CMR 26.2.1 and 26.2.2.

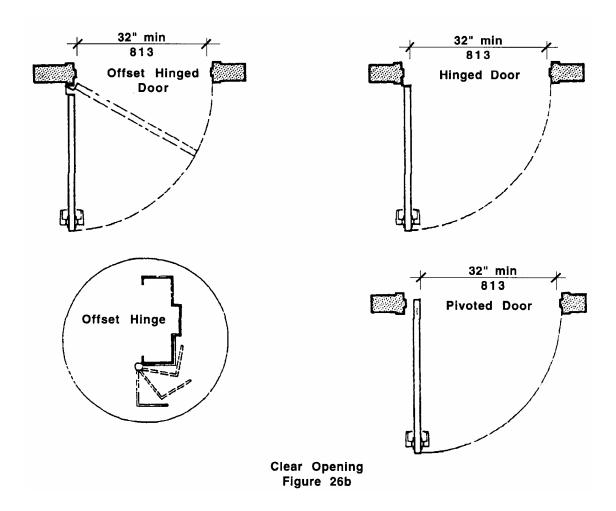
26.4 DOUBLE-LEAF DOORWAYS

A doorway having two independently operated door leaves shall have at least one leaf that meets the requirements of **521 CMR 26.5**, **Width** and **521 CMR 26.6**, **Maneuvering Clearance**. That leaf shall be an active leaf.

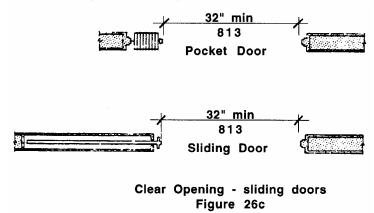
26.5 WIDTH

All doorways and openings that are required to be *accessible* shall have a *clear* opening of not less than 32 inches (32" = 813mm). *Clear* opening of a door is measured from the face of the stop on the latch side to the face of the door when the door is open 90 degrees. For door types such as bifold, accordion, and pocket, the *clear* opening is measured when the door is in its most fully open position. **See Fig. 26b and 26c**.

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NOTE: A standard 36 inch (36" = 914mm) door with a standard hinge, will produce a *clear* opening of at least 32 inches (32" = 813mm).



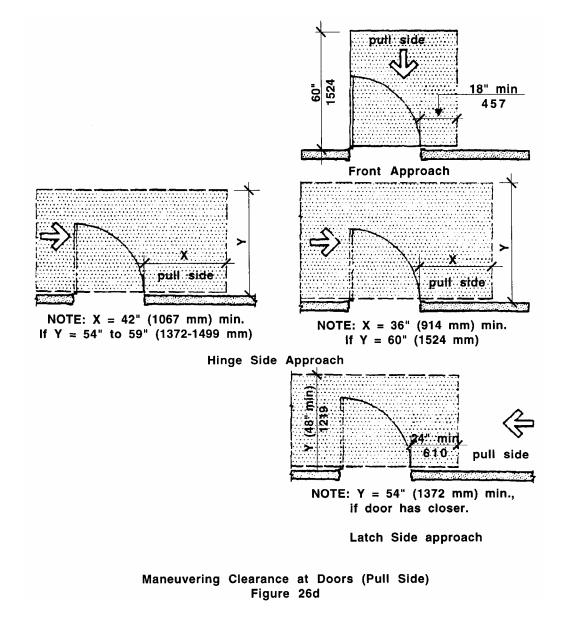
26.6 MANEUVERING CLEARANCE

A minimum *clear* floor area shall be provided on both sides of all doors and gates shall comply Exception: Doors equipped with automatic opening devices are exempt from **521 CMR 26.6.3**, **26.6.4**, **26.8**

- **26.6.1** The floor or ground area within the required clearances shall be *level*.
- **26.6.2** Doors located in a recess of more than 6 inches (6"=152mm) deep shall have *clear floor space* as required in **521 CMR, Section 26.6.3 and 521 CMR Section 26.6.4**. Said *clear floor space* shall be measured within 6 inches (6"=152mm) of the door.
- **26.6.3** Pull side clearance shall comply with the following:
 - a. A minimum of 18 inches (18" = 457mm) of *clear* floor space shall be provided on the latch, pull side of the door when the *clear floor space* in front of the door is a minimum of 60 inches (60" = 1524mm). see **Fig. 26d**.

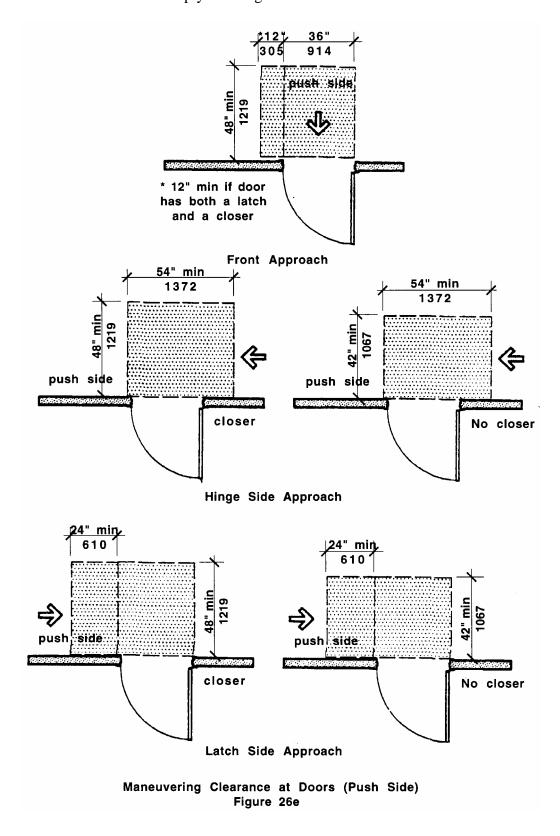
- b. A minimum of 42 inches (42" = 10667mm) of *clear floor space* shall be provided on the latch, pull side of the door when the *clear floor space* in front of the door is more than 54 inches (54" = 1372mm) but less than 60 inches (60" = 1524mm) see **Fig. 26g**.
- c. A minimum of 24 inches (24" = 610mm) of clear floor space shall be provided on the latch, pull side of the door when the clear floor space in front of the door is a minimum of 54 inches (54"= 1372mm) and the door has a closer. see **Fig. 26d**.

Pull side clearance shall comply with Fig. 26d.

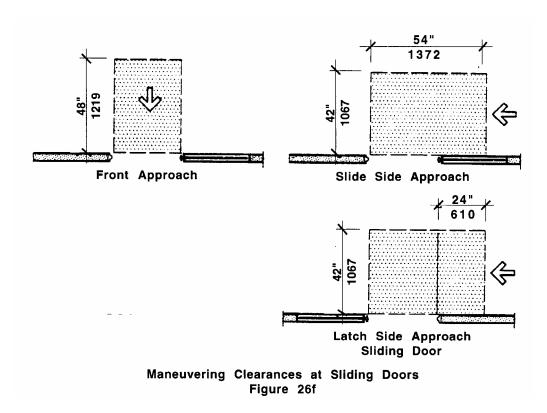


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26.6.4 Push side clearance shall comply with Fig. 26e.

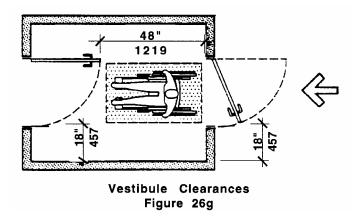


26.6.5 Clearance for sliding door shall comply with Fig. 26f.



26.7 TWO DOORS IN SERIES

The minimum *space* between two hinged or pivoted doors in series shall be 48 inches (48'' = 1219mm) plus the width of any door swinging into the *space*. Doors in series shall swing either in the same direction or away from the *space* between the doors. See **Fig. 26g**.



26.8 DOOR OPENING FORCE

The maximum force for pushing or pulling open a door shall be as follows:

- 26.8.1 Doors: These forces apply only to opening the door, not to the effort required to retract latch bolts or disengage other devices that may hold the door in a closed position.
 - a. exterior hinged doors: 15 lbs.
 - b. interior hinged doors: 5 lbs.
 - c. sliding or folding doors: 5 lbs.

Exception: Fire doors shall have the minimum opening force allowable by the appropriate administrative authority.

26.8.2 Compensating devices: Doors requiring greater force shall be equipped with compensating devices to reduce the operating force, or shall be equipped with automatic opening devices.

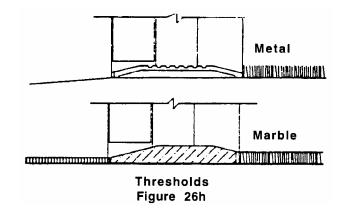
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26.9 DOOR CLOSERS

If a door has a closer, then the sweep period of the closer shall be adjusted so that from an open position of 90 degrees, the door will take at least six seconds to close.

26.10 THRESHOLDS

Thresholds at doorways shall comply with the following (See Fig. 26h):

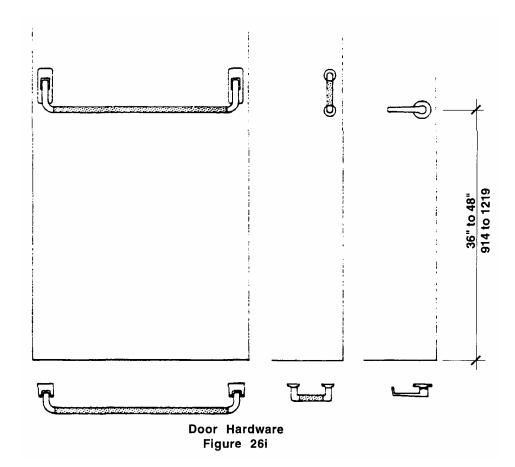


- 26.10.1 Thresholds shall not exceed $\frac{1}{2}$ inch ($\frac{1}{2}$ " = 13mm) in height and shall be beveled on both sides with a slope no greater than one-in-two (1:2) (50%).
- 26.10.2 Changes in floor finish materials shall have an edge strip or threshold that is beveled at a ratio of one-in-two (1:2) (50%).
- 26.10.3 Exterior sliding door thresholds shall not exceed ¾ of an inch (¾" =19mm) in height and shall be beveled both sides with a slope no greater than one-in-four (1:4) (25%).

26.11 DOOR HARDWARE

Shall comply with the following:

- 26.11.1 Type: Handles, pulls, latches, locks, and other operating devices on *accessible* doors shall have a shape that is easy to operate with one hand and that does not require tight grasping, tight pinching, or twisting of the wrist to operate. Lever-operated mechanisms, push-type mechanisms, and U-shaped handles are acceptable designs. When sliding doors are fully open, operating hardware shall be exposed and usable from both sides.
- 26.11.2 Height: Hand-operated door opening hardware shall be located 36 inches to 48 inches (36" to 48" = 914mm to 1219mm) above the floor. See **Fig. 26i**
- 26.11.3 Operation: Doors in the *means of egress* shall be operable with one hand and with a single effort. Doors in the paths of ingress shall be able to be unlocked and opened with one hand. The force required to operate the hardware shall be no greater than 5 lbs.
- 26.11.4 Special hardware: Doors opening into hazardous areas shall have door-opening hardware which is knurled or has a roughened surface to give tactile warning to persons with visual impairments. Hazardous areas shall include but not be limited to loading platforms, boiler rooms, and electrical equipment rooms.



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